

CONSOLIDATED INFORMATION TECHNOLOGY SERVICES TASK ASSIGNMENT (TA)

1. **TITLE:** (D318) ATOS/ATOL Scheduling Support

TA No:	RDO002-Rev7	
Task Area Monitor:	Alternate Task Area Monitor:	
NASA POC:	Software Control Class:	Low Control
Type of Task:	Recurring Task	

2. **BACKGROUND**

The Air Traffic Operations Simulation (ATOS) is a distributed simulation system composed of several hundred aircraft simulations and is used by NASA Researchers to study advanced concepts in Airborne Separation Assistance Systems (ASAS) and other Air Traffic Management (ATM) technologies. The ATOS system is located in the Air Traffic Operations Laboratory (ATOL), along with other lower fidelity simulators and ATM research tools, at NASA's Langley Research Center in Hampton, Virginia. While most of the ATOS research performed today is under the auspices of the Airspace Systems Program of NASA's Aeronautics Research Mission Directorate, it is anticipated that given the unique world-class ATOL capabilities, it will support ATM research beyond the Airspace Systems Program.

ATOL resources include a staff of civil servants, ConITS personnel, and other contractors supporting ATOL development and research activities, as well as the facility and its multiple simulation systems. NASA has identified a need to create and track an integrated schedule to manage all ATOL activities and resources.

3. **OBJECTIVE**

Create and manage an ATOL Integrated Schedule that includes all of the activities, milestones, and resources required to support the research performed in the ATOL.

These activities, milestones and resources include (but are not limited to): a) experiment simulation requirements development, scenario development, ATOS component development, modification, integration and testing, experiment execution, and data analysis, and b) hardware and configuration related activities. The ATOL Integrated Schedule top level tasks should be defined such that progress can be directly correlated to the Airspace Systems Program Office Integrated Schedule milestones.

4. **GENERAL IT SUPPORT SERVICES**

General IT Support Services Performance Metrics

Performance Standard: Product quality meets customer expectations.

Performance Metrics:

- Exceeds: Product performance exceeds customer's documented requirements and expectations. Product provides service to the customer beyond anticipated use requirements. Customer provides written or verbal communication indicating the same.
- Meets: The product performs as documented in the requirements and meets customer needs. Customer is satisfied with product and uses in the manner intended.
- Fails: Product does not perform as documented in the requirements and customer expectations are not met. Customer is not satisfied with product and cannot use in the manner intended.

Performance Standard: The contractor delivers products (applications, data, etc.) within costs and schedule.

Performance Metrics:

- Exceeds: The contractor delivers products to the customer prior to scheduled delivery date and under cost.
- Meets: The contractor delivers products to the customer on scheduled delivery date and within cost.
- Fails: The contractor delivers products to the customer after scheduled delivery date and/or exceeds stated cost by more than ten percent.

5. SYSTEM AND APPLICATION DEVELOPMENT SERVICES

6. WORK-AREA SPECIFIC SERVICES

Work Area Title: ATOL/ATOS Scheduling Support

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Work Area Description: Provide scheduling support for the ATOL activities and resources required to perform research as defined in the Task Plans of the Airspace Systems Program and associated Projects (NextGen Airspace & Airportal). Support includes the development of an integrated schedule to track all phases of the ATOL research activities such as a) experiment simulation requirements development, scenario development, ATOS component development, modification, integration and testing, experiment execution, and data analysis, and b) hardware and configuration related activities.

Work Area Requirements: The Contractor shall create an ATOL Integrated Schedule that includes all of the activities, milestones, and resources required to support planned research to be performed in the ATOL. The Contractor shall work with the RDO006 and TA108 TAM and alternate TAM, the ATOL Lab Manager, the Crew Systems and Aviations Operations Branch Manager, and the Aviation Operations Team Lead to define the level of details to be included in the integrated schedule, and coordinate with the NextGen Airspace & Airportal Projects Office to ensure that top level tasks can be mapped to their

Integrated Schedule.

As part of the process of creating the Integrated Master Schedule, the Contractor will also work with each of the Associate Principal Investigators and Senior Researchers responsible for planned ATOL experiments.

The Contractor shall implement dependencies between the activities, as identified by NASA..

The Contractor shall provide training to the TAM and Alternate TAM on how to manage the Integrated Master Schedule.

7. Exhibit A

None required.

8. SPECIAL SECURITY REQUIREMENTS

None required.

9. SOFTWARE ENGINEERING PROCESS REQUIREMENTS

None required.

10. JOINT REVIEW SCHEDULE

The TAMs, ATOL Lab Manager, Crew Systems and Aviation Operations Branch Head, Aviation Operations Team Lead, and Contractor will participate in bi-weekly meeting to discuss progress and any issues on this effort.

11. PERIOD OF PERFORMANCE

This TA is effective from 02/01/03 to 04/27/10

12. TECHNICAL PERFORMANCE RATING

In evaluating Technical Performance, quality and timeliness shall be rated as follows:

Quality: 50% Timeliness: 50%

13. RESPONSE REQUIREMENTS

This Task Plan shall address the contractor's specific work plans, associated estimated labor hours, cost and schedule.

14. GOVERNMENT ESTIMATED COST

15. FUNDING INFORMATION

Funding has not been entered for this TA.

16. MILESTONES

None required.

17. DELIVERABLES

Number	Deliverable Item	Deliverable Schedule
1	ATOL Integrated Master Schedule	Monthly through 04/27/2010

18. FILE ATTACHMENTS

None.